Addonics
T E C H N O L O G I E S

mini NAS

Model: NAS25HDU2

User Manual

FCC Warning Statement

This equipment has been tested and found to comply with the limits for a class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try and correct the interference by one or more of the following suggestions.
Reorient or relocate the receiving antenna
Increase the distance between the equipment and the receiver
Connect the equipment to a different power outlet other than the one where receiver is connected
Consult a certified television or radio technician

1.0 Key Features

- Convert any 2.5" SATA drive into a Network Attached Storage device
- Connect a USB printer to share it over the network
- One Fast Ethernet 10/100Mbps port
- Can be set as a DHCP server or client depending on whether a DHCP server is present
- Support Samba server, by which the server hosts 64 clients on line
- Support FTP server allowing up to 8 FTP users at the same time
- Built-in Bit torrent client to download files directly off the internet onto the mini NAS
- UPnP AV server can be used to share photo/music files stored on the file server with XBOX 360 video game consoles connected to the LAN
- User Management capability to allow read only or read/write access to folders
- Administrative management access via web browser with password security.
- Compatible with Windows 2000/XP/Vista, Mac 10.5.4 and above, and Linux 2.6.x and above

The mini NAS is a flexible, economical and powerful unit for your network. Follow the instructions to help you connect, setup, and configure it.

Note: Any 2.5" SATA drive that you connect to the mini NAS will initially be required to be formatted. This means, if you are connecting a 2.5" SATA drive with data on it, the hard drive will be formatted erasing all the information. It is recommended that a backup of this drive be made first.

If you have a 2.5" SATA drive that is currently formatted as FAT32, it can be connected to the mini NAS without formatting. All files that need to be shared on the network must be placed under the Public folder.

Network Environment

There are 3 different setup conditions you can choose:

A. Setup mini NAS as a DHCP Client:
If the mini NAS is connected to a LAN network with an active DHCP server, it will obtain an IP address from DHCP server automatically.

B. Setup mini NAS as DHCP Server:
If your LAN network does not have an active DHCP server, the mini NAS will immediately act as DHCP server and assign itself an IP address for installation.

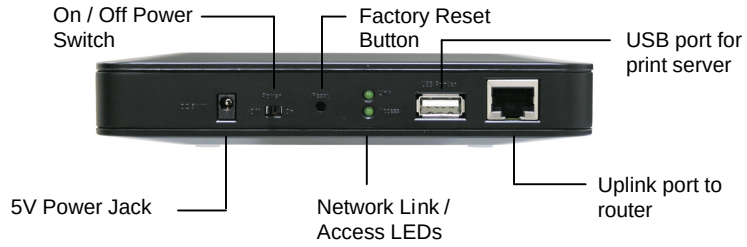
C. Setup mini NAS in Static IP environment:
You first need to configure the IP address for mini NAS to operate in the static IP environment. For Configuring details, please refer to "LAN Config" setup page.

2.0 Mini NAS Hardware Installation

1. To open the mini NAS, remove the 2 screws located at the bottom part of the enclosure.

2. Insert the SATA drive into the SATA connector and secure the drive using the screws provided.

3. Connect LAN cable to uplink port to LAN switch and/or router.
4. Connect 5V power adapter then power up the mini NAS.


On / Off Power Switch
Factory Reset Button
USB port for print server
5V Power Jack
Network Link / Access LEDs
Uplink port to router

Mini NAS connected directly to a computer's NIC card
If you connect the mini NAS to a computer directly, the will act as a DHCP server, assigning itself an IP address automatically and will also assign an IP address to the computer's network card. This configuration will not enable you to see the drive on the network.

Mini NAS connected to a Router or Switch
When the mini NAS is connected to a LAN network with an active DHCP server, it will obtain an IP address from DHCP server automatically. Or if your LAN network does not have an active DHCP server, mini NAS will immediately act as DHCP server and assign itself an IP address for installation

3.0 Search mini NAS by SDisk Utility

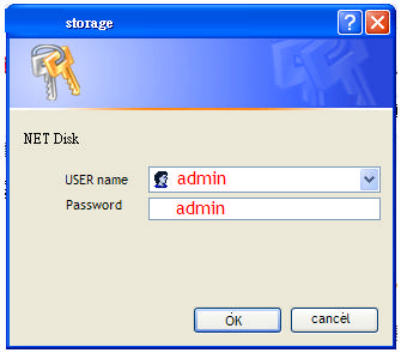
1. Browse the CD enclosed in the product package. Copy and paste "**SDisk Utility**" in to your computer then double click the icon to start search.

Note: "**SDisk utility**" was written with JAVA script, please make sure your computer has installed JAVA before, if not please install the JAVA JRE from the CD drive.

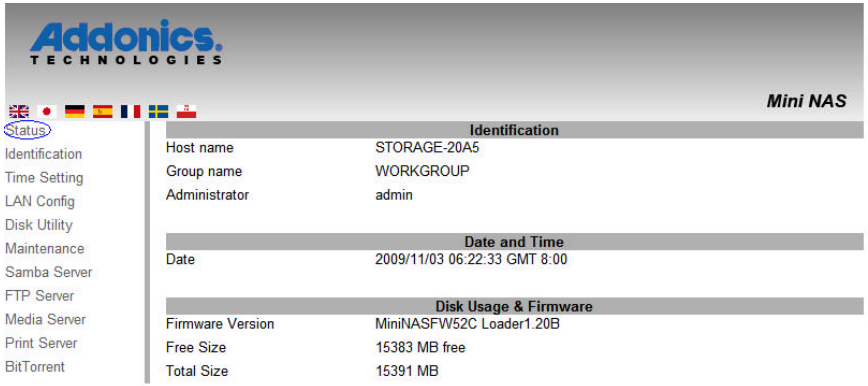
2. When mini NAS has been found, click "**Connect**" to enter web GUI utility.

Open mini NAS web GUI by using web browser.

1. Open web browser and type default host name **"storage"** in the search bar.
2. Default login is **"admin"** for both User name and password. Click "**OK**" to enter configurations.



Status
Provide the basic information for Mini NAS.



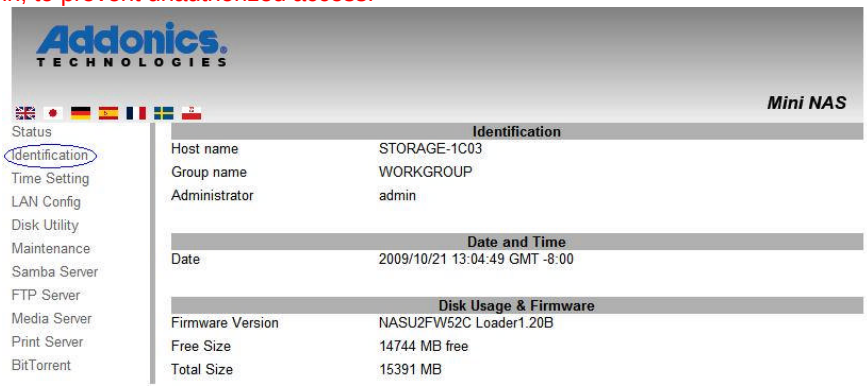
Identification
You can change and modify your host, group name and password from this page. Click "**Apply**" to save the setting.

> **Host name:** This is used to identify your device on the network. If you prefer a different name, type in the new name and click "**Apply**" to save setting.
>
> **Group Name:** This should be the same as your workgroup. In general, the default "**WORKGROUP**" will be OK. But if your workstation belongs to different workgroup, type in the correct group name to modify.

For Window OS, right click on "**My computer**" and choose "**Properties**", go to the computer name tab to see your current workgroup.

If using a Mac OS system, to join a Windows workgroup, open the directory access utility (under Applications-> utilities). Select SMB and click configure to modify the settings (administrator access required to access this option.)

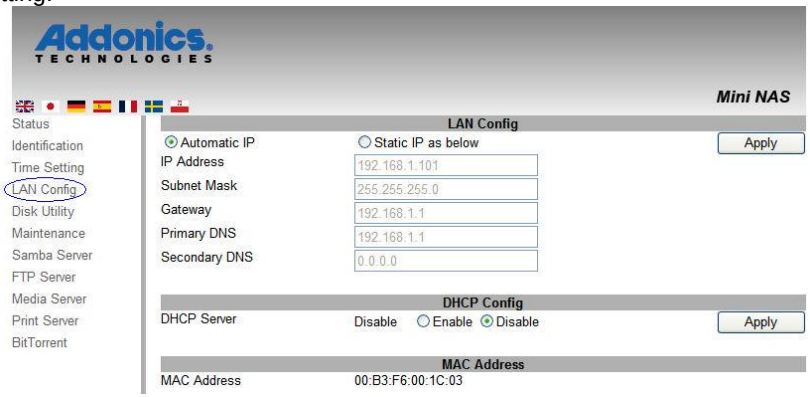
Note: We strongly suggest you to change the password as soon as you logged in, to prevent unauthorized access.



Date/ Time Setting
You can change time setting from this page. Clicks "**Apply**" to save the setting.

By default SNTP is set to Network Time Service otherwise select synchronize to PC. If internet access is available, we recommended setting SNTP to Network Time Service instead.

LAN Configuration
By default, "LAN Config" is set to "Automatic IP". This will allow the mini NAS to obtain its IP address automatically. If you prefer setting it manually, select the static IP option, enter your own value and click "**Apply**" to confirm the new setting.



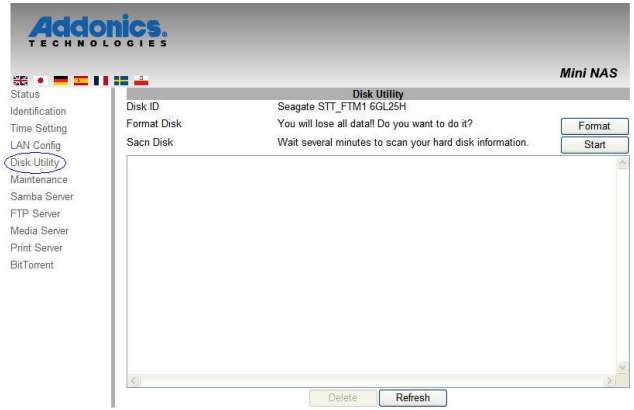
Disk Utility
In this page, you can manage hard disk settings of the USB storage device.

Format: For first time installation, you need to format hard disk into FAT32 file system. Formatting the drive will erase all data on the hard drive.
Warning: For hard drives with data on it, create a backup before proceeding to format the hard drive!

Tip: You can transfer back the backup data to the NAS Public folder for sharing via the network or USB connection of the USB Storage device.

Sleep Time: This is to select hard disk sleeping mode.

Scan Disk: After the scan, it will show file content information and health status for the hard disk.



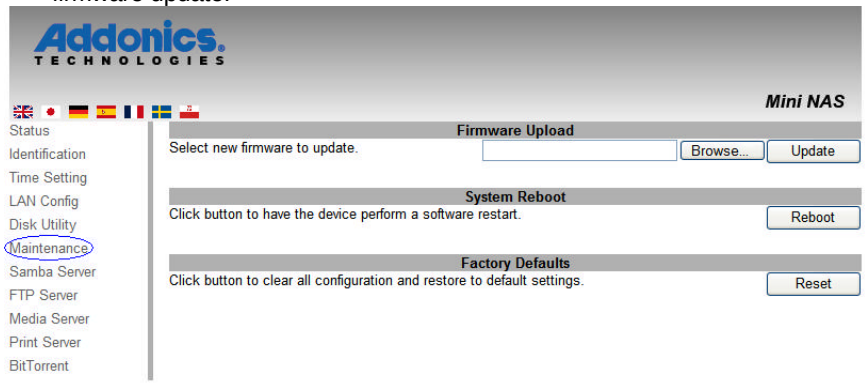
Maintenance
This page allows you to update the Mini NAS firmware, to go back to factory default settings or reboot NAS system.

Firmware update: Follow the steps below to update the loader and firmware for Mini NAS.

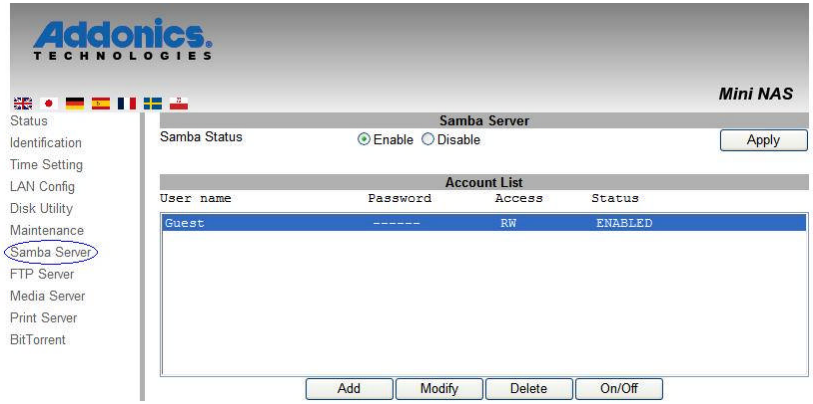
1. Download the latest firmware.
2. Store the firmware file on your computer and decompress them if necessary.
3. Browse your system and locate the firmware (BIN file).
4. Click on "**Update**".
5. Confirm the pop-up massage to start the update.
6. Wait and DO NOT click anywhere else or turn off the power. The upgrade might take a few minutes.
7. Once the update is done, it will prompt you to reboot the device.
8. Click on "**Reboot**" to restart the device.
9. Wait for about one minute and then go to the status page to confirm the update was successful.

Factory defaults: If you experience problems after a firmware update, it is recommended to reset all settings.
Note: Resetting the device will remove all folder from the sharing list, erase the FTP accounts, and reset all other settings! Please do not power off or disconnect Mini NAS connection during the firmware update process.

System reboot: This can be used to restart the network drive after a firmware update.

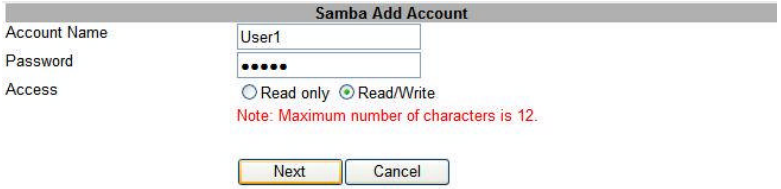


Samba Server
Samba server allows you to share data or files through the network LAN. When a USB storage device is connected, a default Public folder is available to be shared among Guest users. A default Guest user is also created.
Note: Only use English alphabet for folder names and no special characters when creating new folders.

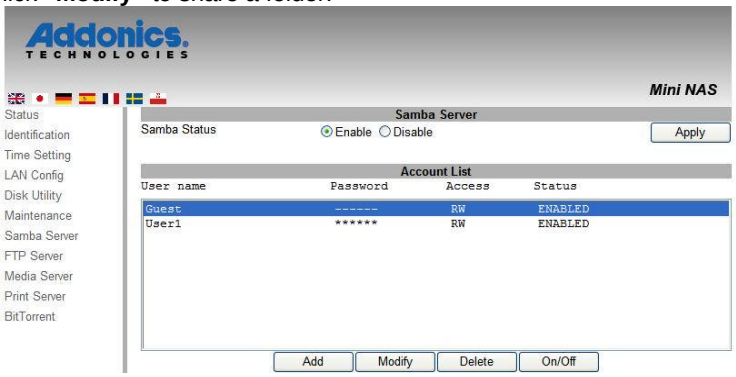


How to create a user

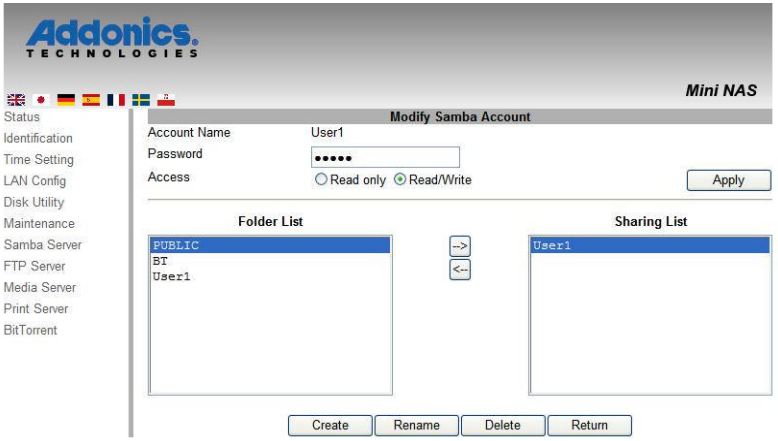
Click on the **"Add"** button and type new account name and password. Click **"OK".** The NAS will also create a SAMBA folder named "User1".



Click **"Modify"** to share a folder.

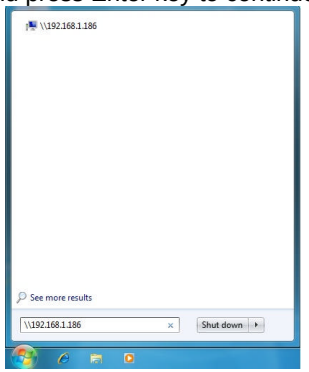


Select "User1" from Folder List and click the " à " to add user on "Sharing List".



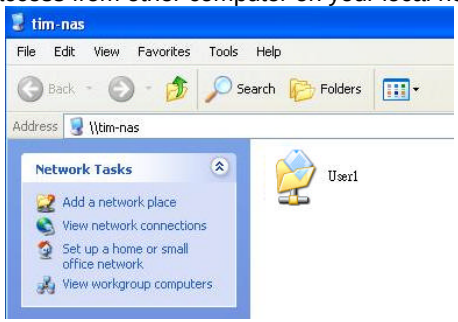
To access the PUBLIC folder of the Samba Server

Click on the Windows icon located on the bottom left corner of the screen, on the "Search programs and files" \\ followed by the IP address. Eg:\\192.168.1.121 and press Enter key to continue.



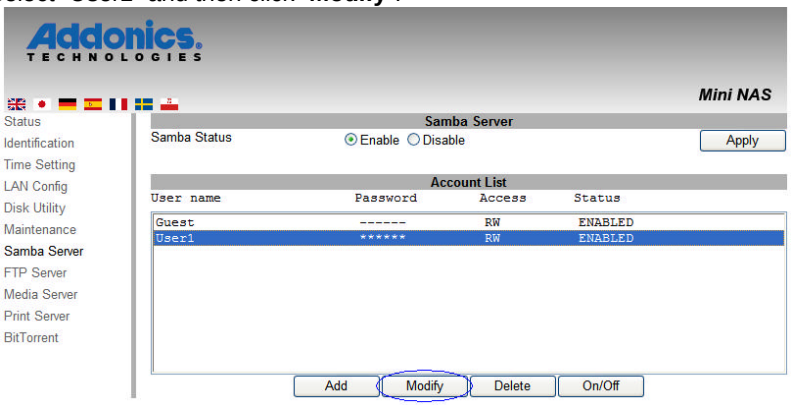
Type "Guest" as username. Leave password empty. Click on OK. This will direct you to the Public folder on the NAS drive.

Now you have set up the folder that you wish to share on your NAS . This folder can be access from other computer on your local network.

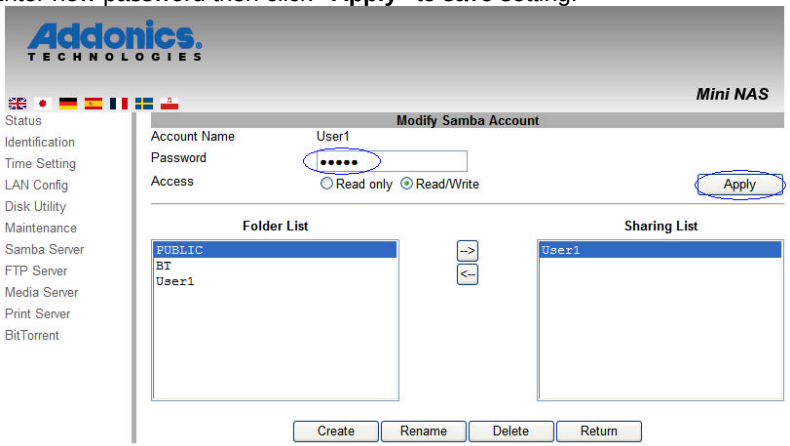


How to modify SAMBA account password

Select “User1” and then click “**Modify**”.

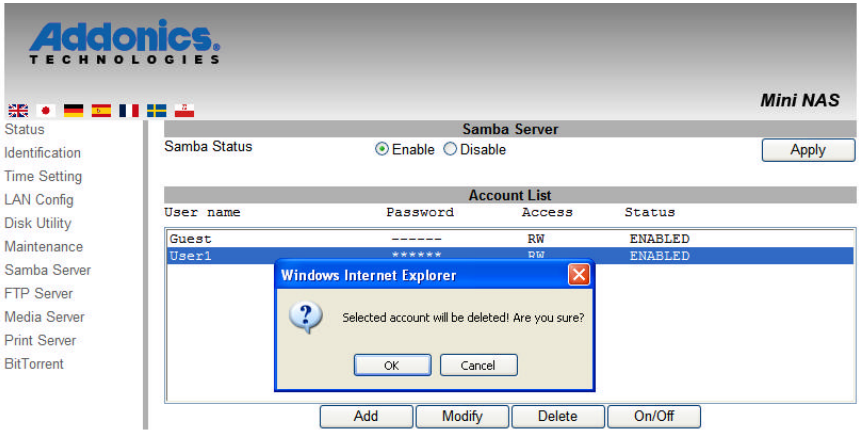


Enter new password then click **“Apply”** to save setting.



How to delete a SAMBA account

Select an account you wish to delete. Click **“Delete”** to proceed. Please note that all the data inside the folder will be lost after the delete.



FTP Server

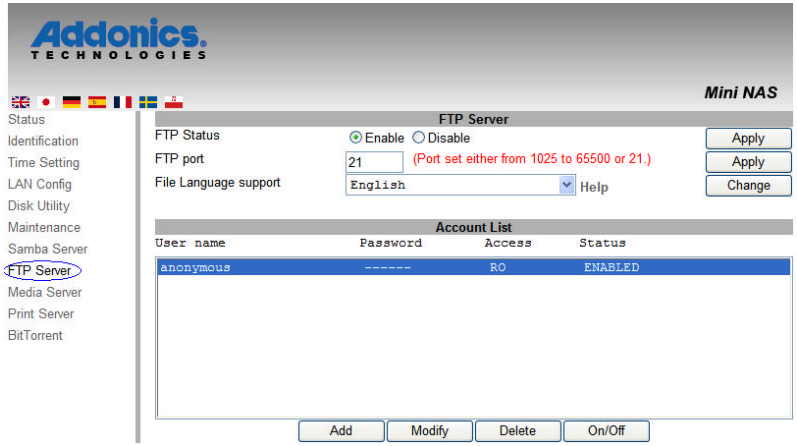
Remember to “Enable” the FTP service on the status page, when you plan on using the FTP server.

FTP server Configuration: The standard port for FTP service is 21. If required, you can change it from any port between 1025-65500. But in general, we recommended using the default port of 21.

File language support: By default, the encoding is set to English. If you want to store or transfer files with a different encoding (different language), choose the corresponding language for the drop down list. In order to transfer and view the files correctly, it is important that you select the correct language!

Anonymous: By default an anonymous user name has been created, it allows FTP users to login without username and password. For security reasons, it is best to add a password!

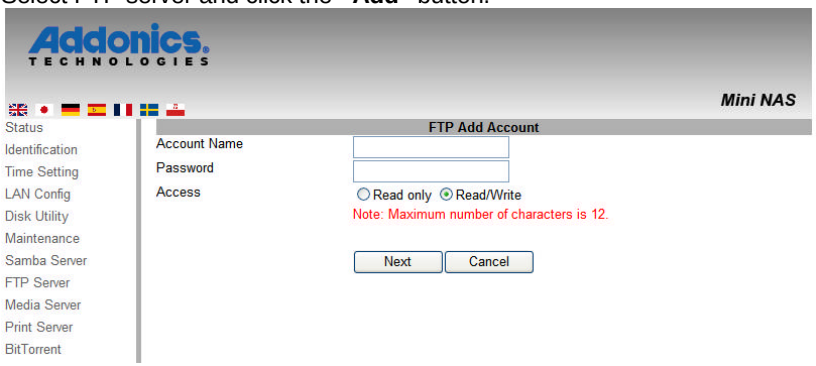
Note: To be able share FTP resource you need a router to assign the IP address.



How to create a FTP account

FTP allows you to share your data through the internet. An internet connection is required before setting up FTP server.

Select FTP server and click the **"Add"** button.



Enter a name and password for the new FTP account and click **"Next"** to continue. In the account list, you can see an overview of the existing accounts and status. Click "Apply".

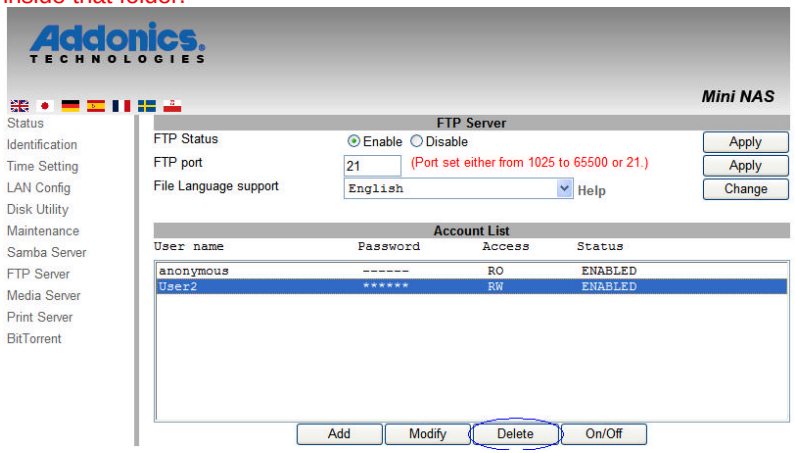
For FTP file transfers, we recommend to use other dedicated FTP client software e.g.: SyncQuick FTP, Cute FTP etc.

Note: When creating FTP accounts, please use only English alphabet and no special character or space for FTP account name.

How to delete a FTP account

In the "Account List", you can see an overview of the existing account and status. You can change them at any time by selecting the account and modifying, disabling or deleting it.

Note: Deleting a folder will erase all the files on the hard drive that are stored inside that folder.

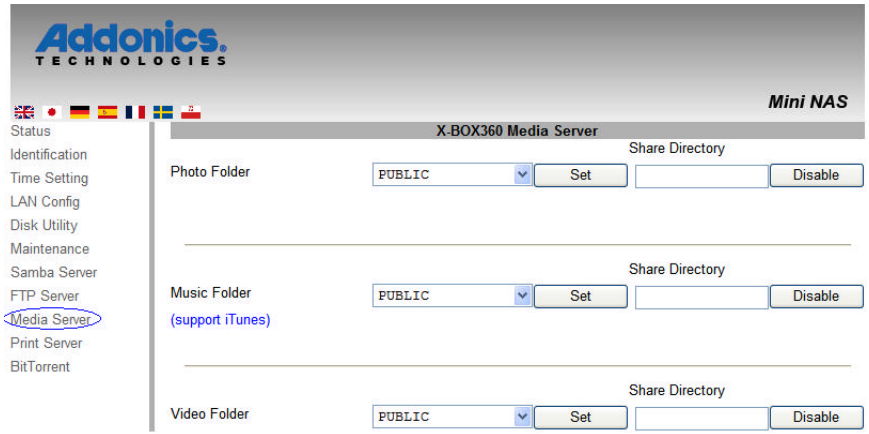


XBOX 360 Media Server

The Media server can be used to share your photo and music files stored on the Mini NAS with an X-BOX360 video game console from Microsoft.

Before you start, make sure both devices are connected to the same local network and turned on.

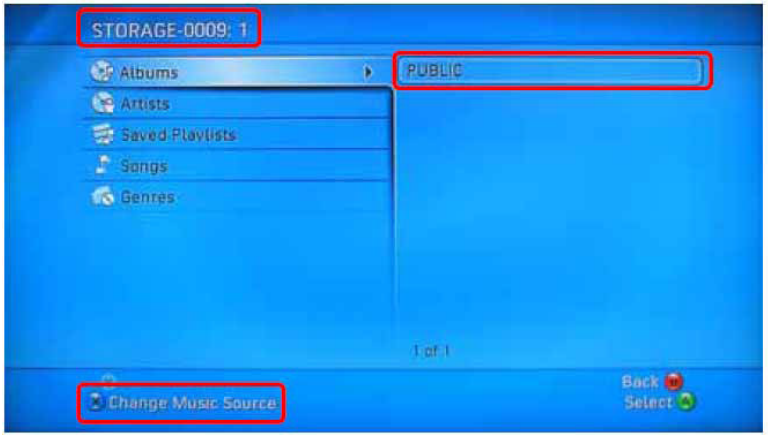
Go to the X-BOX360 Media Server page, select the folder where your photo files are located using the drop down menu. Once you have selected the folder, click on the "Set" button. This will enable this folder as the shared folder. Under Share Directory **"PUBLIC"** is displayed. To remove the folder as shared, click on Disable.



Same procedure applies for the Music and Video folders.

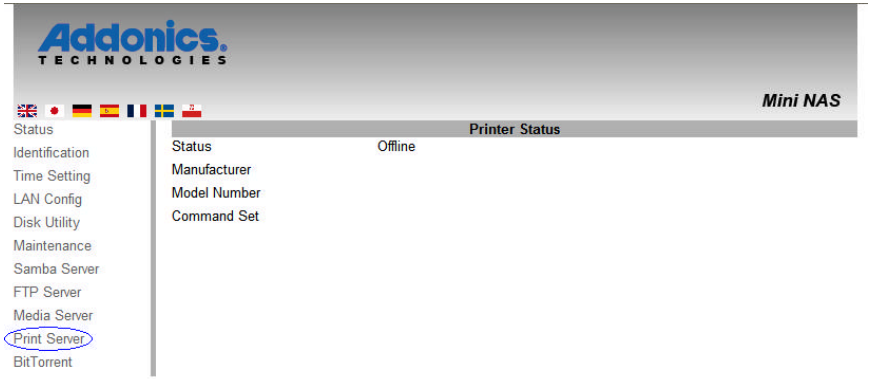
On your Xbox 360, go to “Media” tab, select either Music or Pictures and press A button of the Xbox console to continue.

Press X button of the Xbox console to change the source and select your network drive. It should show up as storagexxx and display the folder that you have set up earlier on your Mini NAS.

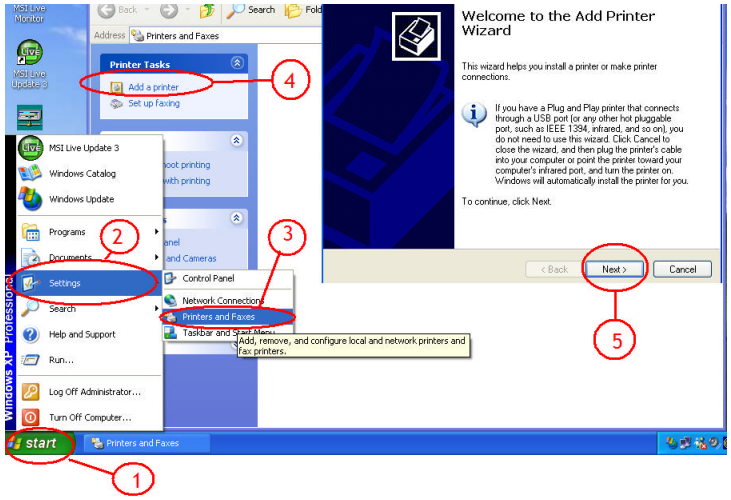


Inside the share folder, you can access your picture or music files, depending on which mode you are currently using. Select the files you would like to see or to listen, and start playback.

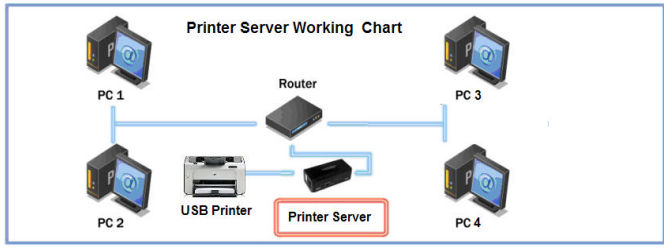
Printer Server



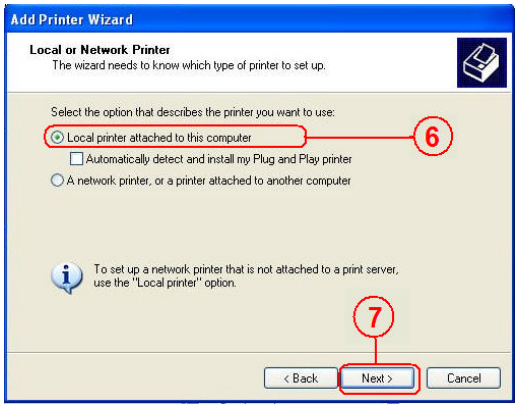
1. Install printer driver, (for example. if Epson PL-6200L Printer is connected to the Mini NAS, you must install PL-6200L driver into the computer first.) After driver installation, click “Start” • “Setting” • “Printer and Faxes” • “Add a printer”• “Next”.


Printers and Faxes
Printer Tasks
Add a printer
Set up faxing
Welcome to the Add Printer Wizard
This wizard helps you install a printer or make printer connections.
If you have a Plug and Play printer that connects through a USB port (or any other hot pluggable port, such as IEEE 1394, infrared, and so on), you do not need to use this wizard. Click Cancel to close the wizard, and then plug the printer's cable into your computer or point the printer toward your computer's infrared port, and turn the printer on. Windows will automatically install the printer for you.
To continue, click Next.
< Back
Next >
Cancel
MSI Live Update 3
Windows Catalog
Windows Update
Programs
Documents
Settings
Search
Help and Support
Run...
Log Off Administrator...
Turn Off Computer...
Control Panel
Network Connections
Printers and Faxes
Taskbar and Start Menu...
Add, remove, and configure local and network printers and fax printers.
Windows XP Professional
start
Printers and Faxes
1
2
3
4
5

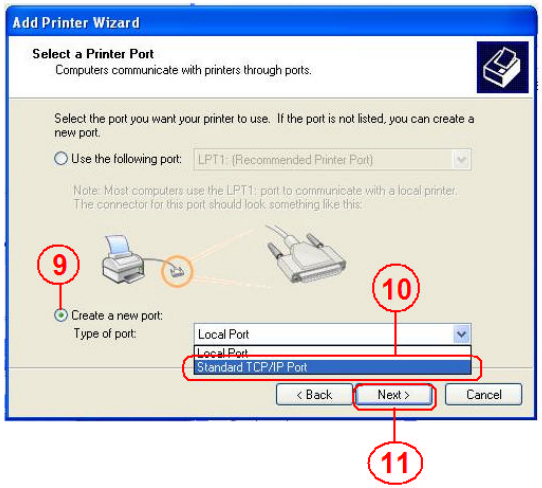
2. Connect USB printer to Mini NAS. Your network environment should be similar with diagram below:



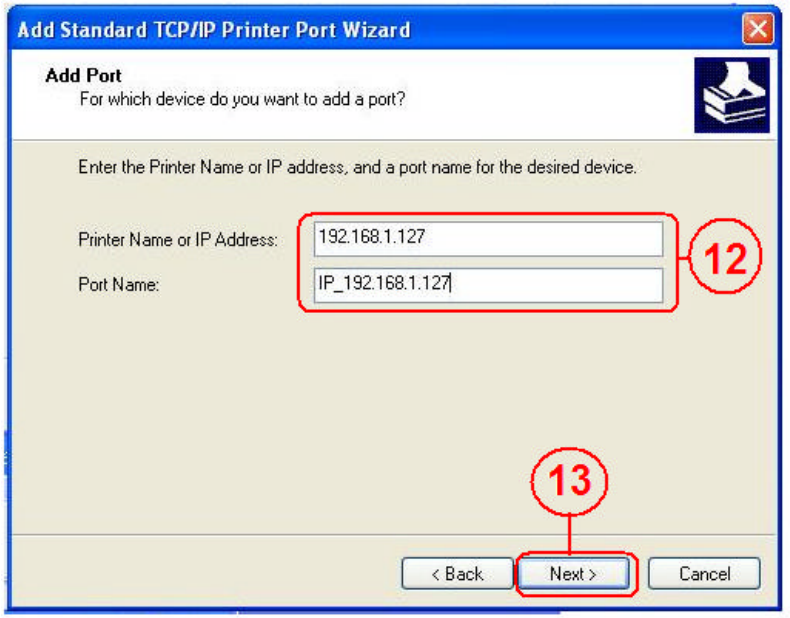
3. Select “Local printer” and click “Next” to continue.


Add Printer Wizard
Local or Network Printer
The wizard needs to know which type of printer to set up.
Select the option that describes the printer you want to use:
Local printer attached to this computer
Automatically detect and install my Plug and Play printer
A network printer, or a printer attached to another computer
To set up a network printer that is not attached to a print server, use the "Local printer" option.
< Back
Next >
Cancel
6
7

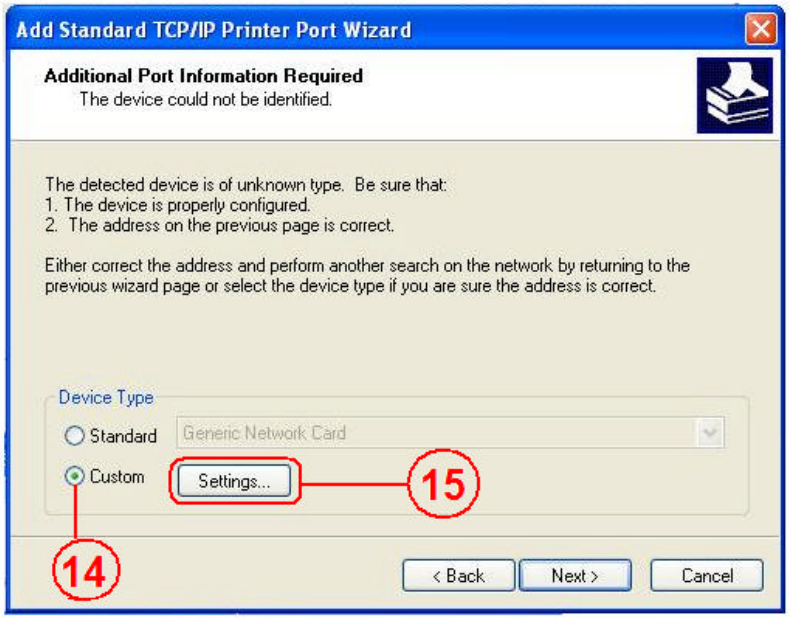
4. Select “Create a new port type of port:” then choose “Standard TCP/IP Port” then click “Next” to continue.


Add Printer Wizard
Select a Printer Port
Computers communicate with printers through ports.
Select the port you want your printer to use. If the port is not listed, you can create a new port.
Use the following port:
LPT1: (Recommended Printer Port)
Note: Most computers use the LPT1: port to communicate with a local printer. The connector for this port should look something like this:
Create a new port:
Type of port:
Local Port
Local Port
Standard TCP/IP Port
< Back
Next >
Cancel
9
10
11

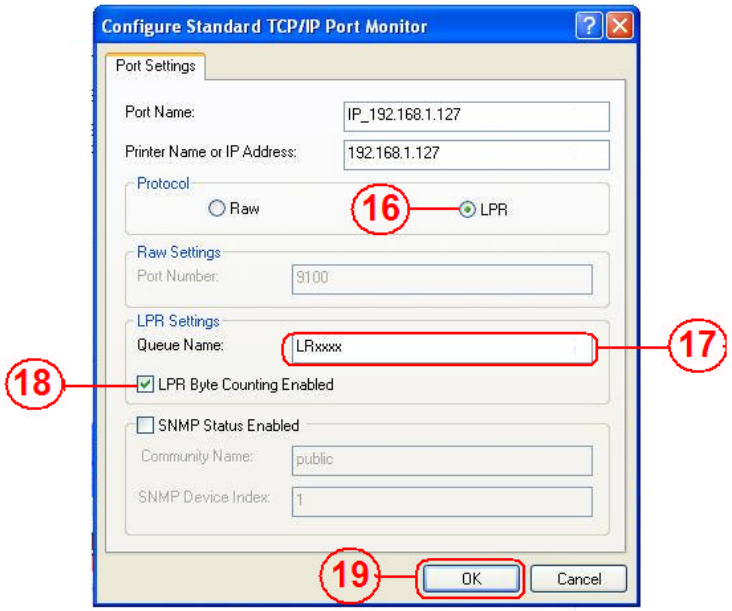
5. Enter the Mini NAS IP address then click “Next” to continue.


Add Standard TCP/IP Printer Port Wizard
Add Port
For which device do you want to add a port?
Enter the Printer Name or IP address, and a port name for the desired device.
Printer Name or IP Address:
192.168.1.127
Port Name:
IP_192.168.1.127
< Back
Next >
Cancel
12
13

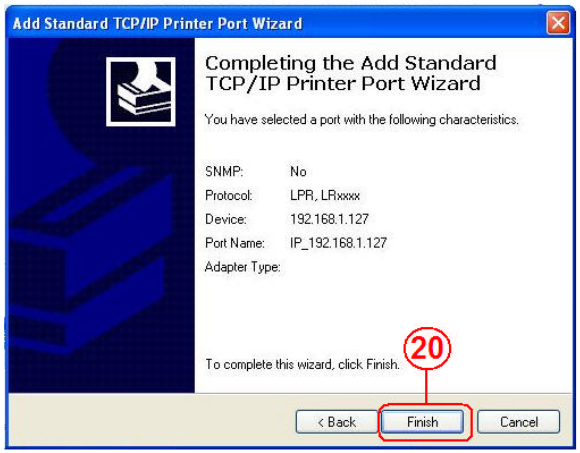
6. Select “Custom” and go to “Setting”.


Add Standard TCP/IP Printer Port Wizard
Additional Port Information Required
The device could not be identified.
The detected device is of unknown type. Be sure that:
1. The device is properly configured.
2. The address on the previous page is correct.
Either correct the address and perform another search on the network by returning to the previous wizard page or select the device type if you are sure the address is correct.
Device Type
Standard
Generic Network Card
Custom
Settings...
15
14
< Back
Next >
Cancel

7. Select “LPR” under protocol, and give a queue name eg:LRxxx; select LPR Byte Counting Enabled then click “OK” to finish the port setting.



8. Click “Finish” to complete TCP/IP printer setup.

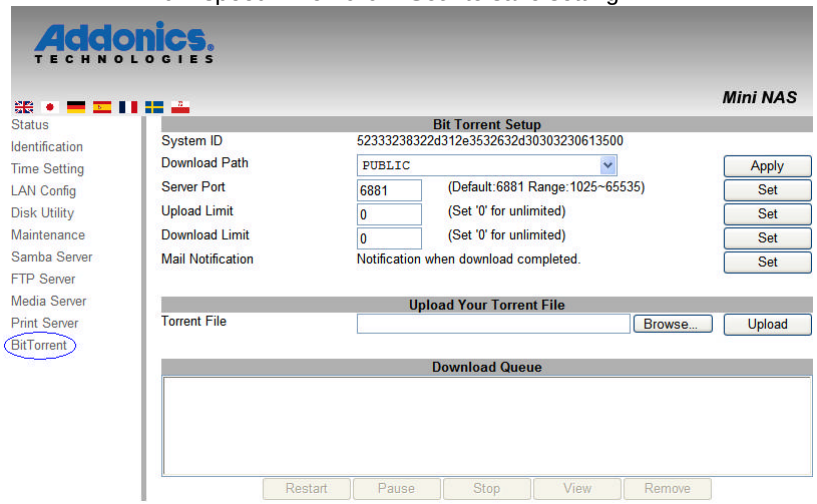


Note: The Mini NAS printer server does not support GDI/Host-based printers. For some Multi Function Printers (MFP); scanning functions might not be functional probably. Please contact Printer Manufacture for detail Specifications.

Bit Torrent server

The Mini NAS supports Bit Torrent download without using PC resource.
A maximum of 4 bit torrent downloads can be running at the same time.

1. Select “**Bit Torrent**” and select the “Download Path” you wish to use. Then click “**Apply**” to save setting. (DO NOT change path setting while performing BT download, otherwise downloading jobs will disappear)
2. Server Port range can be from 6881 to 65535. (6881 is default setting)
3. Type an upload speed limit: 0= unlimited upload speed, and 4 KB is minimum speed. Then click **“Set”** to save setting.

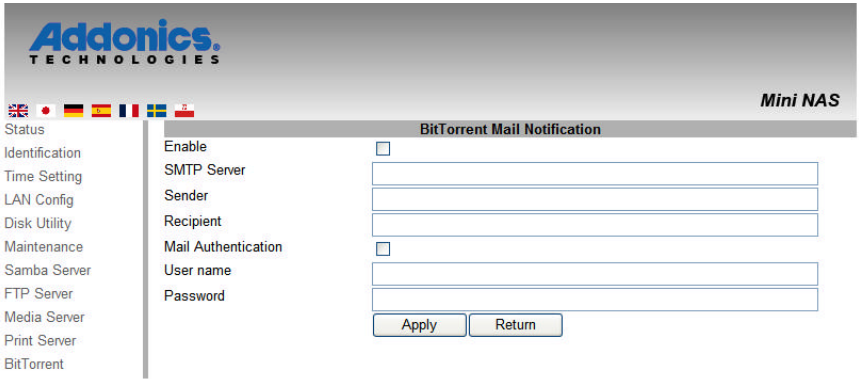


4. Click “**Browse**” and select torrent file then click “**Upload**” The file will show up to the download queue.

Note: Jobs listed in the Download Queue will be removed when Mini NAS is turned off or USB storage is removed.

Mail Notification

After a download is successful, an email will be sent to the designated email address. Click **“Mail setup”** and input SMTP server, recipient email, SMTP A/C, Password, than click **“Apply”** to save setting.



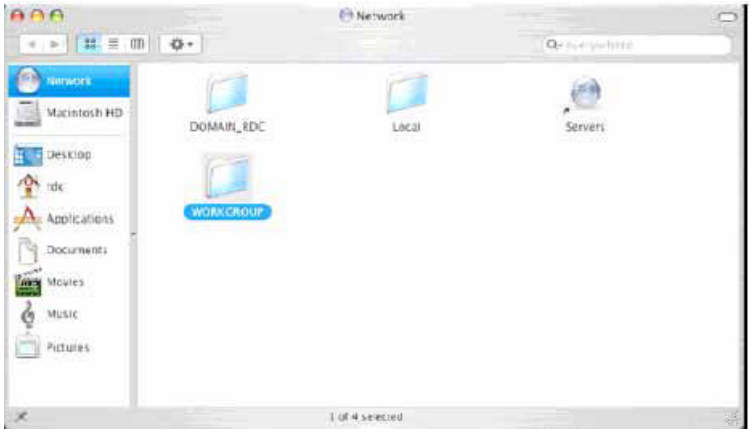
Mac installations (Mac 10.5.4 or above)

Open the Mac browser “Safari” and key-in the host name of the Mini NAS (for example, “Storage-0000”). It will detect the Mini NAS automatically.

How to setup SAMBA in Mac OS X 10.5.4

1. Click “**Go**” on the toolbar, and select ”**Network**” as the screenshot shown below.

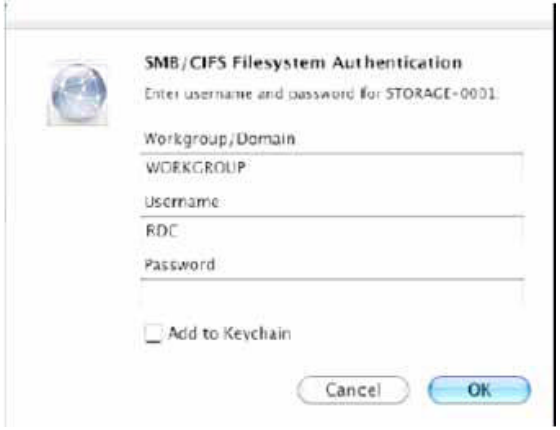
2. Double Click “**WORKGROUP**” (or the correct group name of the Mini NAS), you will find the Mini NAS **“STORAGE-xxxx”** (or the correct name of the Mini NAS) in following window.



3. Click on the S**torage-xxxx** (or the correct name of the Mini NAS).

4. Select the folder you wish to share, and click "**OK**" to share the folder.

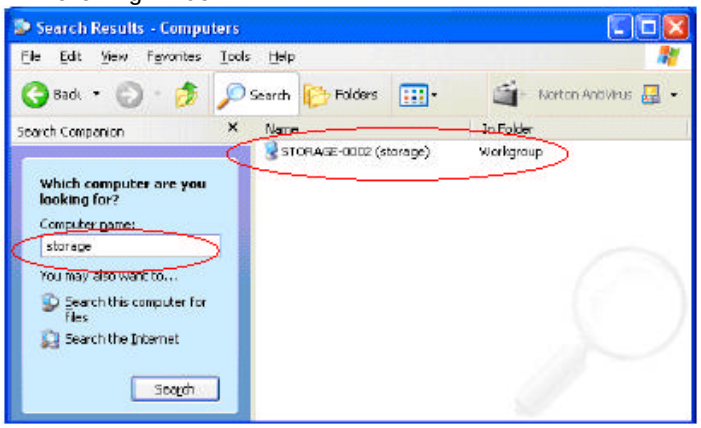
5. Click "**OK**" to show the folder in the Desktop.



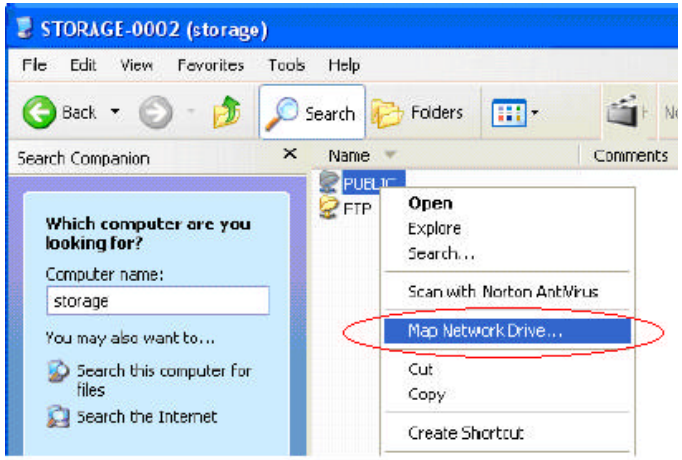
How to Map your Mini NAS to your system.

Showing NAS Disk Drive in network

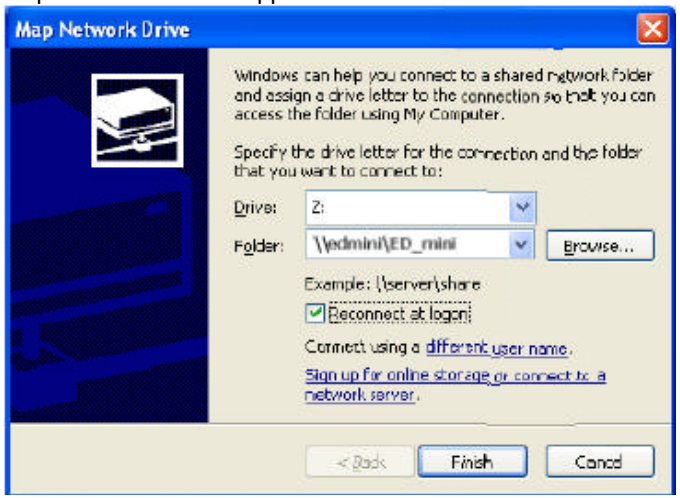
1. Press "Start" button on Windows desktop
2. Press "Search"
3. Select Folders
4. Select Computer or people
5. Select a computer on the network and a new window will appear.
6. Key in the host name, (For example "storage-xxxx") in the "Computer name" column and then press "Search" button. You will see the following window.



7. Point to the "Storage-xxxx", double click the mouse. Choose the folder you wish to map, click mouse on its right button and click "Map Network Drive".



Map Network Window appears


Map Network Drive
Windows can help you connect to a shared network folder and assign a drive letter to the connection so that you can access the folder using My Computer.
Specify the drive letter for the connection and the folder that you want to connect to:
Drive:
Z:
Folder:
\\edmini\ED_mini
Browse...
Example: \\server\share
Reconnect at logon
Connect using a different user name.
Sign up for online storage or connect to a network server.
< Back
Finish
Cancel

Note: For faster connection and usability, we recommend that you map a drive. This creates a direct access to the shared drive from My Computer (for more information about drive mapping, refer to your Windows manual).

Access SMB folder of Mini NAS in Ubuntu 8.04

First, using the console get the prerequisites for the samba file system:
$ sudo aptitude install samba smbfs
$ mkdir /mnt/NAS
$ sudo mount.cifs //NAS_adapter_IP_address/Public /mnt/NAS -o username=Guest

Search Mini NAS by SDisk Utility in Ubuntu 8.04
You are going to be installing the JRE and the web browser plug-in. Use the following command from a terminal
$ sudo apt-get install sun-java6-jre sun-java6-plugin sun-java6-fonts

Check that the JRE is properly installed by running the following command from a terminal.
$ java -version
You should get similar output
java version "1.6.0•
Java(TM) SE Runtime Environment (build 1.6.0-b105)
Java HotSpot(TM) Client VM (build 1.6.0-b105, mixed mode, sharing)

Navigate to the folder where the jar file is located
$ java –jar Sdisk.jar

Technical Support

If you need assistance to get your unit functioning properly, please call Addonics Technical Support. Our technical staff will be happy to assist you, but they will need your help to do so. Calling the technical support staff without all the proper information can be both time consuming and frustrating. Here are some tips to help you out:

MODEL NUMBER – Please have this number on hand.
SYSTEM INFORMATION – Type of computer, peripherals, etc.
OPERATING SYSTEM – What version of Windows
WHAT'S THE TROUBLE? – Give enough information about your problem so that we can recreate and diagnose it.

FREE Software Drivers for all Addonics Technologies Products are available 24 hours per day at the World Wide Web Site: www.addonics.com

Contact Information

Phone:	408-573-8580
Fax:	408-573-8588
Email:	http://www.addonics.com/sales/query/
Internet:	http://www.addonics.com

TECHNICAL SUPPORT

Phone:	408-453-6212
Hours:	8:30 am - 6:00 pm PST
Email:	http://www.addonics.com/support/query/